

## **Chemical Metering Systems for the Municipal Market**

### **Standard Features**

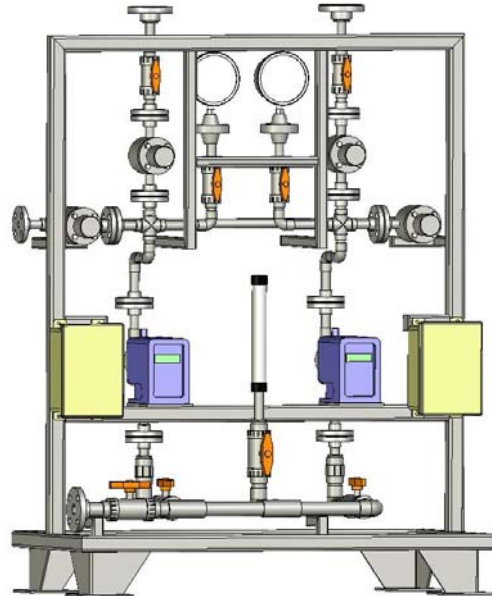
Hayward Gordon offers a wide range of custom designed Chemical Feed Systems. These Systems are built to the customer's specifications. Our Chemical Metering and Control Systems ensure process specifications and industry standards are met. We pride ourselves on our services: 3-D Computer Aided Design (CAD) drawings, which include Process & Instrumentation drawings, system layout & design and Operation & Maintenance instructions. Each System is assembled and thoroughly tested at our factory to assure your satisfaction.

### **Typical Applications/ Services**

- Alum Feed System
- Caustic Chemical Feed System
- Ferric Sulfate /Aluminum Sulfate Feed System
- Motor Driven Metering Pump System
- Polymer Feed System
- Sodium Hypochlorite Injection
- Pre-Engineered Systems
- Plastic and Stainless Steel Piping Configurations
- Wall-Mounted Chemical Feed Systems

### **Pumping Solutions**

- Watson Marlow Peristaltic Pump
- Liquiflo External Gear Pump (sealless option available)
- Progressing Cavity Pump (Allweiler)
- Diaphragm and Piston Metering Pump (LEWA)
- Custom Pumping Solutions



### **System Accessories**

Hayward Gordon offers a fully developed line of accessories, which can be integrated into any existing system. By choosing the right accessory or combination of accessories, an entire chemical feed system can be designed to operate in an efficient and reliable way.

- Mixer
- Feed Tank
- Flow Meter
- Back Pressure Valve (BPV)
- Calibration Column
- Injection Nozzle
- Leak Detector
- Mixing Tee / Static Mixer
- Pressure Relief Valve (PRV)
- Pulsation Dampener
- Block and Bleed Valves
- Pressure Gauge
- Level Measurement
- Temperature Measurement
- Control Panel



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# ENGINEERED SYSTEMS AND CONTROLS

ENGINEERED SYSTEMS	DESCRIPTION	FEATURES
<b>Custom Pump &amp; Process Packages</b> 	<p>Your single-source for the design and manufacture of custom engineered pumping systems. Based on process and application specifications, we will produce P&amp;ID's and design the system with necessary pumps, piping, controls and instrumentation. You will receive a skidded, tested and fully functional system complete with documentation that is tailored to your specific requirements.</p>	<ul style="list-style-type: none"> <li>• Optimal pump type selected for each application</li> <li>• Certified TSSA piping systems welded to ASME B31.1 and B31.3</li> <li>• CSA approved control panels</li> <li>• Optional PLC's and operator interfaces</li> <li>• Optional CRN registration of components</li> </ul>
<b>Tank &amp; Mixer Packages</b> 	<p>Hayward Gordon saves you time and money by integrating our in-house mixing expertise into complete turn-key packages that include Hayward Gordon mixers, tanks and various accessories designed to your specifications.</p>	<ul style="list-style-type: none"> <li>• Range of tank materials includes stainless steel, fiberglass, HDPE, steel, and rubber lined steel</li> <li>• Bridge supports</li> <li>• Level controls</li> </ul>
<b>Metering / Chemical Injection Systems</b> 	<p>Our custom engineered metering and chemical injection systems include pumps, components, controls, and instrumentation selected to suit the application and customer specifications.</p> <p>Typical applications include Alum, Chlorine, Hydrogen Peroxide, Ferric Chloride, Boiler and Cooling Water Additives, Polymers, Acids, Chelants, Phosphates, Dyes, Pigments, Starches, Coatings, and many other additives.</p>	<ul style="list-style-type: none"> <li>• Wide range of metering pumps including API 674 and 675</li> <li>• Piping and frames available in 316SS, steel, or PVC</li> <li>• Certified TSSA piping systems welded to ASME B31.1 and B31.3</li> <li>• CSA approved control panels</li> <li>• Optional PLC's and operator interfaces</li> </ul>
<b>Slurry Makedown &amp; Mineral Dispersion Systems</b> 	<p>Complete packaged systems for effective slurry makedown of bulk solids and difficult to wet materials.</p> <p>Typical applications include lime, gypsum, starch, talc, bentonite clay, calcined clay, and soda ash.</p>	<ul style="list-style-type: none"> <li>• Systems typically include; semi- bulk bag unloading station, overhead hoist, feed hopper with access hatch, dust seal, level monitoring, pneumatic vibrator, volumetric feeder with variable speed control, and mixing tank</li> <li>• Allen Bradley PLC and operator interface for automatic control and monitoring</li> </ul>
<b>Dry Polymer Systems</b> 	<p>The innovative <b>ChemVac™</b> dry polymer makedown system, features a unique "high performance / high pressure" nozzle, providing one of the most efficient wetting systems available. Allen Bradley PLC and operator interface used to provide automatic control and monitoring.</p>	<ul style="list-style-type: none"> <li>• Feed rates to 1,000 kg/day &gt; 1% concentrations</li> <li>• Eliminate "fish-eyes"</li> <li>• Dust-free wetting</li> <li>• Stainless steel construction</li> <li>• CSA control panels</li> </ul>
<b>Liquid Polymer Systems</b> 	<p>The <b>Activator™</b> series of liquid polymer systems provide fast and complete inversion of polymer. Allen Bradley PLC and operator interface used to provide automatic control and monitoring.</p>	<ul style="list-style-type: none"> <li>• Dilution flows from 5 gpm to over 100 gpm</li> <li>• Unique "Smart-Mixer" and post dilution mixing</li> <li>• Stainless steel construction</li> <li>• CSA control panels</li> </ul>

Start-up service available on all systems



## HEAD OFFICE

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